

A Wordsearch on Metals

Q1 Fill in the missing letters for the metals below, then search for them in the word search.

Write the letters in the gaps:

A__uminium

Le__d

Po__assium

__alcium

Lith__um

__ilver

Chro__ium

Ma__nesium

__odium

__obalt

Ma__ganese

__in

Co__per

Mercur__

Ti__anium

__old

__ickel

Tun__sten

__ron

Platinu__

__inc

Zir__onium

A	P	L	A	T	I	N	U	M	E	E	S	K
L	O	T	T	T	I	T	A	N	I	U	M	L
U	T	C	R	U	I	G	O	L	D	C	P	E
M	A	N	G	A	N	E	S	E	H	Y	C	K
I	S	I	C	E	M	G	T	L	A	B	O	C
N	S	Z	S	Q	U	H	S	I	F	X	P	I
I	I	I	V	G	I	P	X	T	X	J	P	N
U	U	G	Z	C	M	Y	S	H	E	G	E	V
M	M	U	I	N	O	C	R	I	Z	N	R	I
M	E	R	C	U	R	Y	H	U	L	U	M	O
H	O	U	E	X	H	H	X	M	P	V	G	Z
N	R	M	U	I	C	L	A	C	D	A	E	L
M	U	I	D	O	S	K	Y	G	L	R	E	R

Q2 Find a use for five of the metals listed above.

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Questions on uses of Metals

Q1

People who badly break a leg or an ankle often have a pin placed in their leg to help the bones heal – they hold the bones in place and add strength to them while they are healing.



The table below lists some materials that could be used to make a pin.

Material	Strength	Reactivity	Cost	Hardness	Density	Toughness
Titanium	H	L	H	H	H	H
Mild Steel	H	H	L	H	H	H
Aluminium	M	M	M	M	M	M
Ceramic	VH	L	L	VH	L	L

L = Low

M = Medium

H = High

VH = Very High

- a) Does the pin need to be strong?
- b) Just looking at the strength column – which example would you choose for a pin?
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- c) Does the pin need to be reactive?
- d) Just looking at the reactivity column – which example would you choose for a pin?
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- e) Does the pin need to be hard?
- f) Just looking at the hardness column – which example would you choose for a pin?
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- g) Just looking at the density column – would density affect your decision?
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- h) After examining ALL of the information, explain in as much detail as possible which material you would choose for a pin to place in broken bones.
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